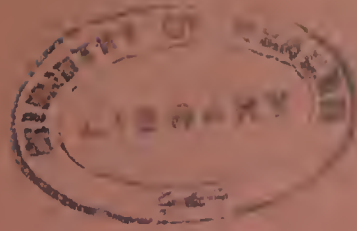


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WESTBURY URBAN DISTRICT COUNCIL.

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WESTBURY

URBAN

DISTRICT

---

R E P O R T

of the Medical Officer of Health.

March 1948.

1 9 4 7

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To the Chairman and Members of Westbury U.D.C.

I beg to present my Annual Report of 1947 on the Health and Sanitary Conditions of the District.

Dr. E.T. Shorland, Medical Officer of Health since July 1908 relinquished his appointment at the end of March 1947.

Mr. C. Frobisher took up his post of Surveyor and Sanitary Inspector late in 1946.

The first of the new Council Houses was completed early in the year, and at 31.12.347. there were 25 new houses completed and in occupation.

There were improvements in the water supply and sanitation of the town: these are dealt with in the various sections of the Report.

I have the honour to be

Your obedient Servant,

D. F. MORGAN.



1. OFFICERS OF THE COUNCIL. (PUBLIC HEALTH DEPT.)

Medical Officer of Health:- D.F. Morgan. M.B., Ch.B., D.P.H.

Surveyor & Sanitary Inspector:- C. Frobisher. M.I.M.E.  
A.M.I.S.E., F.I.H.E., C.R.S.I.

2. GENERAL STATISTICS. (Figures for 1946 in brackets)

Chief occupations are:- Railway Employees, Cloth making, Glove making, Cheese factory, Agricultural workers.

Area 3,686 acres (3,686)

Population 4,761 (4,691)

No. of Inhabited Houses 1401 (1,374)

Rateable Value £26,198 (£25,850)  
(at 31.12.47.)

Product of ld. Rate £102. 11. 6. (£102)  
(at 31.3.47.)

3. VITAL STATISTICS. (Figures for 1946 in brackets)

(a) <u>Live Births</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	
Legitimate	48	43	91	(87)
Illegitimate	3	1	4	(6)
Totals	51	44	95	(93)

Live Birth Rate for Westbury 19.9

Live Birth Rate England & Wales 20.5

<u>Previous Years</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>	<u>1943</u>
District	19.8	15.2	23.1	19.5
Eng. & Wales	19.1	16.1	17.6	15.8

1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation

$$f(x) = \int_0^x \frac{1}{1+t^2} dt$$

It is shown that the function  $f(x)$  is continuous and differentiable on the interval  $(-\infty, \infty)$  and that its derivative is given by the formula

$$f'(x) = \frac{1}{1+x^2}$$

Furthermore, it is proved that the function  $f(x)$  is bounded on the interval  $(-\infty, \infty)$  and that its range is the interval  $(0, \pi/2)$ .

2. In the second part of the paper, we consider the function  $g(x)$  defined by the equation

$$g(x) = \int_0^x \frac{t}{1+t^2} dt$$

It is shown that the function  $g(x)$  is continuous and differentiable on the interval  $(-\infty, \infty)$  and that its derivative is given by the formula

$$g'(x) = \frac{x}{1+x^2}$$

Furthermore, it is proved that the function  $g(x)$  is bounded on the interval  $(-\infty, \infty)$  and that its range is the interval  $(-\pi/4, \pi/4)$ .

3. In the third part of the paper, we consider the function  $h(x)$  defined by the equation

$$h(x) = \int_0^x \frac{t^2}{1+t^2} dt$$

It is shown that the function  $h(x)$  is continuous and differentiable on the interval  $(-\infty, \infty)$  and that its derivative is given by the formula

$$h'(x) = \frac{x^2}{1+x^2}$$

Furthermore, it is proved that the function  $h(x)$  is bounded on the interval  $(-\infty, \infty)$  and that its range is the interval  $(0, \pi/2)$ .

4. In the fourth part of the paper, we consider the function  $k(x)$  defined by the equation

$$k(x) = \int_0^x \frac{t^3}{1+t^2} dt$$

It is shown that the function  $k(x)$  is continuous and differentiable on the interval  $(-\infty, \infty)$  and that its derivative is given by the formula

$$k'(x) = \frac{x^3}{1+x^2}$$

Furthermore, it is proved that the function  $k(x)$  is bounded on the interval  $(-\infty, \infty)$  and that its range is the interval  $(-\pi/4, \pi/4)$ .

(b) Infant Mortality

	<u>Male</u>	<u>Female</u>	<u>Total</u>
Legitimate	2	1	3
Illegitimate	0	0	0
Total	2	1	3

Infant Mortality Rate (per 1000 Live Births)

District 31.6 (43)

Eng. & Wales 41 (43)

(c) Still Births Male Female Total (1946)

Legitimate 1 0 1 (5)

Illegitimate 1 2 3 (1)

Total 2 2 4 (6)

(d) Deaths (see list of Causes of Death)

Male 30 Female 41 Total 71

Death Rate per 1000 Population

	<u>1947</u>	<u>1946</u>	<u>1945</u>	<u>1944</u>	<u>1943</u>
District	14.9	12.6	11.3	13.8	10.7
Eng. & Wales	12.0	11.5	11.4	11.6	11.6

4. CAUSES OF DEATH (Registrar General)

	<u>Male</u>	<u>Female</u>	<u>Total</u>
Typhoid & Paratyphoid Fevers	0	0	0
Cerebro Spinal Fever	0	0	0
Scarlet Fever	0	0	0
Whooping Cough	0	0	0
Diphtheria	0	0	0
Tuberculosis of Respiratory System	0	0	0
Other forms of Tuberculosis	0	0	0
Syphylitic Diseases	0	0	0
Influenza	0	0	0
Measles	0	0	0

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

2. The second part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

3. The third part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

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4. The fourth part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

5. The fifth part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

6. The sixth part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

7. The seventh part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

8. The eighth part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

9. The ninth part of the paper is devoted to a discussion of the general principles of the theory of the atom.

10/10/1911

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	<u>Male</u>	<u>Female</u>	<u>Total</u>
Acute Polio-Myelitis & Polio Encephalitis	0	0	0
Acute Infectious Encephalitis	1	0	1
Cancer of Buccal Cavity & )			
Oesophagus (Male)           )	1	0	1
Uterus (Female)           )			
Cancer of Stomach & Duodenum	1	0	1
Cancer of Breast	0	4	4
Cancer all other sites	3	5	8
Diabetes	0	0	0
Intra-cranial Vascular Lesions	2	2	4
Heart Diseases	8	16	24
Other diseases of Circulatory system	3	1	4
Bronchitis	1	0	1
Pneumonia	2	0	2
Other Respiratory Diseases	0	0	0
Ulcer of Stomach or Duodenum	1	0	1
Diarrhoea under 2 years	0	0	0
Appendicitis	1	0	1
Other Digestive Diseases	1	1	2
Nephritis	0	2	2
Puerperal & Post Abortion			
Sepsis	0	0	0
Other Maternal causes	0	1	1
Premature Birth	1	0	1
Congenital Malformation)			
Birth Injury, Infantile)	0	2	2
Diseases                   )			
Suicide	0	0	0
Road Traffic Accident	0	0	0
Other violent causes	0	0	0
All other causes	4	7	11
	<u>30</u>	<u>41</u>	<u>71</u>

# 5. INFECTIOUS DISEASES      Notifications

The following Diseases were notified among Civilians during 1947:-

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Whooping Cough	17	7	8	7	6	1	1		3	1			51
Measles				1	3	3	3	2					12
Anthrax (Malig. Pustule)								1					1
													64



Isolation Hospital All necessary cases were admitted to Trowbridge Isolation Hospital, where, despite acute staff shortage, there was adequate accommodation.

School Closure No schools were closed for Infectious Diseases during 1947.

### DIPHTHERIA IMMUNISATION

Regular Clinics were started during the year. These are held on the 4th. Thursday of every month at 2.30.p.m. at the Laverton Institute. Immunisation is undertaken by the County Council.

All children should be immunised before their first birthday and the protection should be increased when they start school by a "Booster" injection. Diphtheria is most deadly between the ages of 2 and 5 years.

It is hoped that by starting Regular Clinics, more children will be immunised before they start school, and a campaign of posters and cinema slides was used to inform the public of the new arrangements.

Number of children immunised at any time up to

	<u>31.12.47.</u>	<u>31.12.46.</u>	<u>31.12.45.</u>
Under 1 year	0	0	0
1 "	41	17	19
2 "	43	58	34
3 "	62	39	47
4 "	43	52	45
5 - 9	265	254	266
10 - 14	242	238	251
Total	<u>696</u>	<u>658</u>	<u>662</u>

Percentage of Population under 5 Immunised	49%	46%	50%
Ditto 5 - 14 yrs.	82%	86%	92%
Percentage of total Population under 15	69%	71%	78%



## INFANTILE PARALYSIS

Although no cases of Infantile Paralysis were notified, it was considered necessary to adopt precautions against the possible spread from other districts.

The water in the Public Baths was chlorinated by adding measured quantities of chlorine solution each night after the Baths had closed. The water was changed weekly and the bath scrubbed out with disinfectant.

Frequent tests showed a satisfactory chlorine content in the bath water throughout the summer. It was thought that this had a deterrent effect on the formation of scum in the bath.

## 6. TUBERCULOSIS

The number of cases of Tuberculosis on the Register at 31.12.47. was:-

### Pulmonary Tuberculosis

### Non Pulmonary Tuberculosis

Male 21, Female 19, Total 40.      Male 25, Female 18,  
Total 43.

### New Cases notified during the year.

<u>Pulmonary</u>			<u>Non Pulmonary</u>		
<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
2	2	4	3	1	4

Attention was drawn to the part played by Tubercle Bacilli in milk being a cause of Tuberculosis. After consultation with the County Medical Officer and County Tuberculosis Officer, it was decided to submit for Bacteriological Examination, samples of the milk supply in all NEW cases of Juvenile Tuberculosis.

Routine sampling of milk in all cases was considered. The only reliable test takes approximately 6 weeks to perform and is expensive in technique. By the time results are available, the herd of cows may have changed, other cows become infected, the disease is usually apparent in the original animal, and, if not, it would then be necessary to apply the 6 weeks' test to every cow of the herd involved.





## 7. HOSPITALS, CLINICS, ETC.

Westbury & District Hospital	20 beds.
Prideaux Hospital, Westbury	8 beds. 3 cots.

There are no Nursing Homes in Westbury.

Maternity cases are also accommodated at Trowbridge & District Hospital, Berryfield, Bradford-on-Avon etc.

Isolation Hospital - Trowbridge

Tuberculosis - Odstock Hospital, Salisbury;  
Harnwood Hospital, "  
Winsley Sanatorium, Nr. Bath; and  
the Bath Orthopaedic Hospital  
(Surgical)

The following Clinics serve the District:-

1. Antenatal (specialist) at Trowbridge. Cases referred by own doctor or midwife.
2. Infant Welfare: Congregational School Room, Westbury; on the first and third Mondays of the month 2.0.p.m. Run by the Westbury & District Nursing Association.
3. Diphtheria Immunisation: Laverton Institute, on fourth Thursday of every month, 2.30.p.m.
4. Ear, Nose & Throat: by invitation from County Council.
5. Eye: by invitation from County Council.
6. Orthopaedic: at Trowbridge, invitation from County Council.
7. Tuberculosis: at Trowbridge: Cases referred by own Doctor or by invitation from County Council.
8. Cancer & Rheumatism: at Bristol & Bath, by arrangement with County Council.

The Infant Welfare Clinic. was moved from the Laverton Institute to the Congregational Chapel School Room, Warminster Road. Good attendances were made.

Laboratory. Samples for Bacteriological and Pathological examinations are sent to the Salisbury Infirmary Laboratory under the E.P.H. service. This service is free to Local Authorities for the Diagnosis and Prevention of Infectious Disease, and is made under Section 17 of National Health Service Act 1946.





Nursing. There is one Certified Midwife employed by the Westbury & District Nursing Association.

Ambulances.

Non Infectious: Accidents: Westbury Hospital Ambulance.  
B.R.C.S. ambulances at  
Trowbridge & Warminster.  
Infectious Diseases: Trowbridge Isolation Hospital  
Ambulance.

8. HOUSING.

New Housing Site.

On the Oldfield Park site, where 56 Council Houses are to be built, 25 were completed at 31.12.47. Altogether 42 houses were under construction, including 4 of the 8 Airey Houses at Westbury Leigh. The complete re-housing programme for 1947, excluding those under construction, was 40 houses.

Overcrowding.

35 cases of Overcrowding were investigated, and 29 of these found to be overcrowded. On report to the Council, it was possible, by rehousing into Requisitioned Properties and Council Houses, to abate 16 of these.

Requisitioned Properties.

At 31.12.47. there were 20 Requisitioned Properties under the Council, excluding the Fontanville huts (11) which were occupied by "Squatters". These properties houses approximately 23 families.

Special attention was paid to the sanitary defects in these dwellings, as most of them are below the normal standard.

Routine Inspections.

Appended in the Sanitary Inspector's report are figures for the year. In view of the shortages in labour and materials, satisfactory progress was made during the year.

9. WATER SUPPLY.

Water Supply is undertaken by the Westbury & Dilton Marsh Joint Water Committee from wells and boreholes at Wellhead Pumping Station and Bratton Road Station.



At Wellhead, the quantity of water having been found to be insufficient, it was decided to sink another borehole on the site. This was completed in 1947 but the new boring only yielded about 4,000 - 5,000 gallons per hour. After discussion with the Consulting Engineers, a scheme was made to deepen the boring of one of the wells at the site, and this work was commenced early in 1948.

The Consulting Engineers were also asked to prepare a scheme for more Reservoir capacity to give two days' storage of water instead of the present one half day (approx.). The daily consumption is between 280,000 and 300,000 gallons.

Bacteriological examination shewed mild non-faecal contamination of both sources of water and chlorination of the supply was continued at Wellhead. Efforts were made to dose the water so that the residual chlorine in the town pipes was the minimum detectable i.e. 0.05 to 0.1 parts per million. There was some difficulty about this due to greensand in the water wearing and clogging the Chlorinating Apparatus, and manual dosage was adopted for a time.

Workers on the walls, and at the pumping stations were examined for enteric and other communicable Intestinal Diseases and satisfactory reports obtained.

#### Water Analysis 1947.

		<u>Pollution.</u>
17.10.47.	Reservoir	Slight Pollution with Coliforms all non-faecal.
17.10.47.	Bratton Road, Pumping Station.	Appreciable Pollution non-faecal.
17.10.47.	Wellhead, Pumping Station.	Negligible. Non-faecal.
22.11.47.	Bratton Road	Slight Coliforms.
16.12.47.	Wellhead	Slight non-faecal.
16.12.47.	Bratton Road	Slight non-faecal.

#### 10. SEWERAGE.

The two new sludge lagoons were started during the year and were nearing completion in December. A satisfactory effluent, well oxidised, was reported on 28th. October 1947.

The Military Dortmund Tank, having been put out of action by structural defect, was receiving attention,



and the sprinkler beds were resurfaced with new media.

A new connection into the main sewer was made from the Railway properties.

11. SANITARY INSPECTIONS.

An analysis of the sanitary work for the year is appended.

12. RATS AND MICE.

The Rodent Officer, whose services are shared by the Warminster Urban District and Warminster & Westbury Rural District, visited dwellings, factories and farms in the district. Attention was given also to the sewers and refuse tips.

9/15/15 9/15/15 9/15/15 9/15/15 9/15/15 9/15/15 9/15/15 9/15/15 9/15/15 9/15/15





## SANITARY INSPECTIONS.

### Overcrowding.

- 35 Cases were investigated during the year.
- 6 Cases found not overcrowded.
- 29 Cases found to be overcrowded.
- 16 Cases overcrowding abated by rehousing into Council houses and requisitioned properties.
- 13 Cases remaining will be abated during 1948 as new Council Houses are built and available for occupation.

### Factory Acts.

- 3 Inspections made re fire escapes for factories.
- 3 Statutory Notices served on ditto.
- 3 " " complied with and re-inspected and found satisfactory.
  
- 3 Bakehouses in the district have been inspected periodically, and improvement works to ventilation, drainage and sanitary accommodation effected in one by informal action.
  
- 12 Inspections made of factories and workshops in the district, for the maintenance of provisions of lighting, lime-washing, cleansing, sanitation and rodent control.
  
- 10 Inspections for licences for T.T. Milk (2)  
Ice Cream (7) Obnoxious Trade.
  
- 9 Licences granted for Milk and Ice Cream.
- 1 Licence application abandoned for hide and skin dressing.
- 4 Inspections made re pollution of stream by sewage matters.
- 1 Notice served to abate ditto.
- 1 " complied with and building license allowed for such works.
  
- 15 Certificates issued for unsound food voluntarily surrendered, comprising wet fish, meat, canned fish, meat, milk and fruits.











